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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/650,561	08/28/2003	Necdet Uzun	CIS0189C1US	7599	
	33031 7590 01/28/2008 CAMPBELL STEPHENSON LLP			EXAMINER	
11401 CENTURY OAKS TERRACE			BATES, KEVIN T		
BLDG. H, SUI' AUSTIN, TX 7			ART UNIT	PAPER NUMBER	
,			2153		
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			MAIL DATE	DELIVERY MODE	
			01/28/2008	PAPER .	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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*	Application No.	Applicant(s)	
	10/650,561	UZUN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kevin Bates	2153	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet v	vith the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN (36(a). In no event, however, may a will apply and will expire SIX (6) MC (c) cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 31 C	October 2007.		
2a) ☐ This action is FINAL. 2b) ☐ This	s action is non-final.	•	
3) Since this application is in condition for allowa	•		ie merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims	.*	·	
4)⊠ Claim(s) <u>67-126</u> is/are pending in the applicati	ion.		
4a) Of the above claim(s) is/are withdra			•
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>67-126</u> is/are rejected.			
7) Claim(s) is/are objected to.	. *		
8) Claim(s) are subject to restriction and/c	or election requirement.		
Application Papers			•
9) The specification is objected to by the Examine	er		
10) The drawing(s) filed on is/are: a) acc		by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correc			OFR 1.121(d).
11) The oath or declaration is objected to by the Ex	xaminer. Note the attach	ed Office Action or form F	°TO-152.
Priority under 35 U.S.C. § 119			
•	a mai anita a an	. 110(a) (d) as (9	
<ul><li>12) Acknowledgment is made of a claim for foreign</li><li>a) All b) Some * c) None of:</li></ul>	i priority under 35 0.5.C.	§ 119(a)-(d) of (i).	
1. ☐ Certified copies of the priority document	ts have been received	. •	
2. Certified copies of the priority document		Application No.	
3. Copies of the certified copies of the prior	,		ıl Stage
application from the International Burea	=		•
* See the attached detailed Office action for a list		t received.	
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Attachment/s)			
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🗌 Interview	Summary (PTO-413)	
2) Delice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date	
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5) Motice of 6) Other:	Informal Patent Application	
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## Response to Amendment

This Office Action is in response to a communication made on October 31, 2007.

Claims 1-66 have been cancelled.

Claims 67, 85, 101, and 110 have been amended.

Claims 67 – 126 are pending in this application.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 67 – 125 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knightly (2003/0163593) in view of Lahat (6201792), and in further view of Takeuchi (7269662).

Regarding claims 67, 101, and 110, Knightly teaches a method comprising: providing a queue corresponding to a first media access control (MAC) device to which data is to be transmitted over a network (Paragraph 48);

receiving data, from a local client, destined for a client of a first MAC device of the plurality of MAC devices (Paragraph 48);

storing at least a portion of the data in a first queue corresponding to the first MAC device (Paragraph 48);

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receiving information indicating a need to change an amount of data being transmitted to the client of the first MAC device (Paragraph 47); and

selectively transmitting data stored in the first queue to the first MAC device and the client of the first MAC device; wherein a rate at which the selectively transmitting is performed is based at least in part on at least a portion of the information indicating the need to change the amount of data being transmitted to the client of the first MAC device (Paragraph 48).

Knightly does not explicitly indicate that the MAC device does not have a queue for each of a plurality of media access control devices or that the client of the first MAC device generates the request to change the amount of data being generated.

Lahat teaches a system of having a solution for signaling pervious devices to throttle their communications that includes having output queues for each of the destination devices (Column 5, lines 26 – 43).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include Lahat's output queues in Knightly's system in order to help ensure all the destination devices are receiving fair weight when scheduling output packets along the network by using the queues per destination device.

Takeuchi teaches a system for reducing the amount of information is transmitted to a client based on a client generated request (Column 1, lines 34 - 45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Takeuchi's teaching of allow the client reduce the amount of data it is receiving before a local buffer overflows.

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Regarding claim 85, Knightly teaches an apparatus comprising:

a first media access control (MAC) device operable to be coupled to a network (Paragraph 7);

a buffer coupled to the first MAC device and operable to receive data from the first MAC device (Paragraph 46);

a packet processor coupled to the buffer (Paragraph 46);

a first plurality of queues, wherein each of the first plurality of queues corresponds to a respective network station (Paragraph 48); and

at least one shaper circuit, the at least one shaper circuit being configured to dequeue data stored in at least one of the first plurality of queues based at least in part on at least a portion of information indicating a need to change an amount of data being transmitted to the respective network station corresponding to the at least one of the first plurality of queues (Paragraph 47-48).

Knightly does not explicitly indicate that the client of the first MAC device generates the request to change the amount of data being generated.

Takeuchi teaches a system for reducing the amount of information is transmitted to a client based on a client generated request (Column 1, lines 34 - 45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Takeuchi's teaching of allow the client reduce the amount of data it is receiving before a local buffer overflows.

Regarding claims 68, 102, 105, and 111, Knightly teaches the method of claims 67, 101, and 110 further comprising: providing a second queue corresponding to the

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first MAC device to which data is to be transmitted over the network (Paragraph 48); storing at least another portion of the data destined for the at least one of the first MAC device and the client of the first MAC device in the second queue (Paragraph 48); and selectively transmitting data stored in the second queue to the at least one of the first MAC device and the client of the first MAC device (Paragraph 48); wherein a rate at which the selectively transmitting of data stored in the second queue is performed is based at least in part on one of: the at least a portion of the information indicating the need to change the amount of data being transmitted to the at least one of the first MAC device and the client of the first MAC device; and at least another portion of the information indicating the need to change the amount of data being transmitted to the at least one of the first MAC device and the client of the first MAC device (Paragraph 47-48).

Regarding claims 69, 92, 103, and 112, Knightly teaches the method of claims 68, 85, 102, and 111 wherein the first queue is for data having a first priority level, and wherein the second queue is for data having a second priority level (Paragraph 48).

Regarding claims 70, 93, and 113, Knightly teaches the method of claims 67, 92, and 110 further comprising: providing a second queue corresponding to a second MAC device to which data is to be transmitted over the network (Paragraph 48); receiving data destined for at least one of the second MAC device and a client of the second MAC device (Paragraph 48); storing at least a portion of the data destined for the at least one of the second MAC device and the client of the second MAC device in the second queue (Paragraph 48, wherein traffic from the second MAC device that is

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classified as B and C class are placed in the second queue); and selectively transmitting data stored in the second queue to the at least one of the second MAC device and the client of the second MAC device; wherein a rate at which the selectively transmitting of data stored in the second queue is performed is based at least in part on information indicating a need to change an amount of data being transmitted to the at least one of the second MAC device and the client of the second MAC device (Paragraph 47-48).

Regarding claims 71 and 114, Knightly teaches the method of claims 67 and 110 wherein the first queue is provided in a memory coupled to at least one of another MAC device and a client of the another MAC device (Paragraph 48).

Regarding claims 72, 96, and 115, Knightly teaches the method of claims 67, 85, and 110 wherein the first queue is provided one of a memory of a second MAC device and a client of the a memory of a second MAC device (Paragraph 48, wherein each MAC device in the network has a first queue).

Regarding claims 74 and 117, Knightly teaches the method of claims 67 and 110 wherein the information indicating a need to change the amount of data being transmitted to the at least one of the first MAC device and the client of the first MAC device is received from at least one of the first MAC device, the client of the first MAC device, another MAC device, and a client of the another MAC device (Paragraph 160 and 163).

Regarding claims 75 and 118, Knightly teaches the method of claims 67 and 110 wherein the selectively transmitting data stored in the first queue further comprises

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selectively transmitting data stored in the first queue in one of a first egress direction and a second egress direction (Paragraph 48).

Regarding claims 76, 98, and 119, Knightly teaches the method of claims 67, 85, and 110 further comprising: receiving information indicating a need to change an amount of data being transmitted on a first network link between the first MAC device and another MAC device; selectively transmitting data being selectively transmitted to the at least one of the first MAC device and the client of the first MAC device; wherein another rate at which the selectively transmitting of data being selectively transmitted is performed is based at least in part on at least a portion of the information indicating the need to change the amount of data being transmitted on the first network link (Paragraph 47 and 166).

Regarding claims 79 and 122, Knightly teaches the method of claims 67 and 110 further comprising: transmitting information indicating a need to change an amount of data being transmitted to at least one of another MAC device and a client of the another MAC device (Paragraph 47).

Regarding claims 80, 87, 108, and 123, Knightly teaches the method of claims 79, 85, 101, and 122 further comprising: determining an extent to which a data buffer associated with the client of the another MAC device contains data; and preparing the information indicating the need to change the amount of data being transmitted to the at least one of the another MAC device and the client of the another MAC device (Paragraph 160 and 166).

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Regarding claims 73, 77, 89, 95, 99, 104, 106, 116, and 120, Knightly teaches the method of claims 67, 76, 87, 98, 101, 105, and 110 wherein the information indicating a need to change the amount of data being transmitted to the at least one of the first MAC device and the client of the first MAC device includes at least one of: a MAC device address, a data transmission rate, a ramp factor, a threshold value, a network link bandwidth value, and a flag (Paragarph 160 and 163, a data transmission rate).

Regarding claims 78, 88, 90, 107, and 121, Knightly teaches the method of claims 67, 85, 87, 101, and 110 further comprising: receiving information indicating a need to change an amount of data being transmitted on a first network link between the first MAC device and another MAC device, wherein the rate at which the selectively transmitting is performed is further based at least in part on at least a portion of the information indicating the need to change the amount of data being transmitted on the first network link (Paragarph 47, 160, and 163).

Regarding claims 81, 86, and 124, Knightly teaches the method of claims 67, 85, and 110 wherein the network is at least one of a metropolitan area network (MAN) and a resilient packet ring (RPR) network (Paragraph 7).

Regarding claims 82, 91, and 125, Knightly teaches the method of claims 67, 85, and 110 wherein the information indicating a need to change an amount of data being transmitted to the at least one of the first MAC device and the client of the first MAC device is received in a resilient packet ring (RPR) fairness message (Paragraph 10).

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Regarding claims 83 and 97, Knightly teaches the method of claim 67 encoded in a computer readable medium as instructions executable on a processor, the computer readable medium being one of an electronic storage medium, a magnetic storage medium, and an optical storage medium (Paragraph 46, wherein the processor carries out the algorithm).

Regarding claims 84, 100, 109, and 126, Knightly teaches the method of claims 67, 85, 101, and 110 wherein the information indicating the need to change the amount of data being transmitted to the at least one of the first MAC device and the client of the first MAC device further comprises at least one of: information indicating the need to reduce the amount of data being transmitted, and information indicating the need to increase the amount of data being transmitted (Paragraph 67).

Regarding claim 88, Knightly teaches the apparatus of claim 87 wherein at least one of the first MAC device, the buffer, the packet processor, the at least one shaper circuit, and the comparison circuit is further configured to prepare a message including information indicating a need to change an amount of data being transmitted to a network station that includes the first MAC device (Paragraph 47).

Regarding claim 94, Knightly teaches the apparatus of claim 93 wherein the at least a portion of the information indicating the need to change the amount of data being transmitted to the respective network station corresponding to the at least one of the second plurality of queues is the same as the at least a portion of the information indicating the need to change the amount of data being transmitted to the respective

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network station corresponding to the at least one of the first plurality of queues (Paragraph 48).

## Response to Arguments

Applicant's arguments with respect to claims 67, 85, 101, and 110 have been considered but are most in view of the new ground(s) of rejection.

#### Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U. S. Patent No. 7102997 issued to Sultan, which teaches in Column 4, line 38 – Column 5, line 19 that if a buffer in the RPR node for a client reaches a threshold it sends throttle messages to other nodes in the network.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Bates whose telephone number is (571) 272-3980. The examiner can normally be reached on 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on (571) 272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Kevin Bates/ January 24, 2008